



**PERMANENT SEEDING NOTES**

**Seeding Preparation:** Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 square ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 uniform fertilizer (9 lbs./1000 square ft.)
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 square ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding:** For the periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 square ft.) of weeping lovegrass. During the period of October 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching:** Apply 14 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application, using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

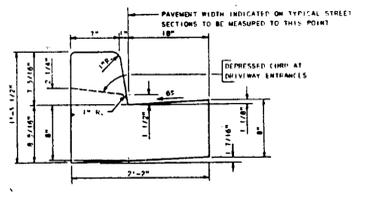
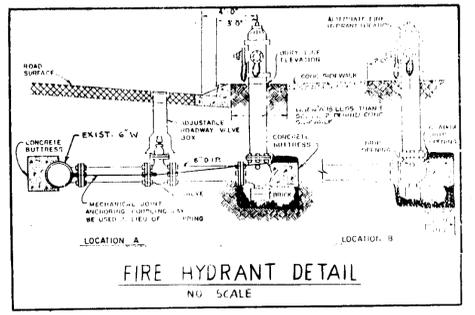
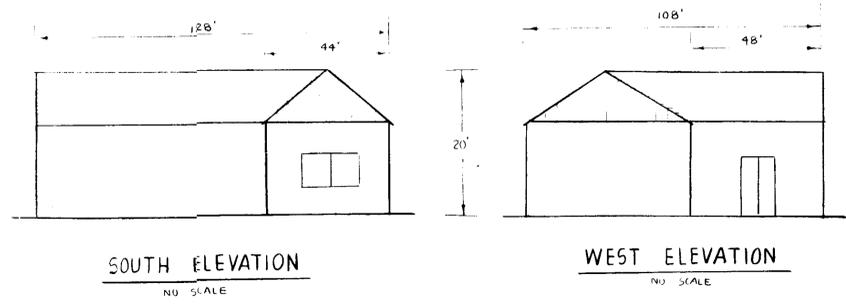
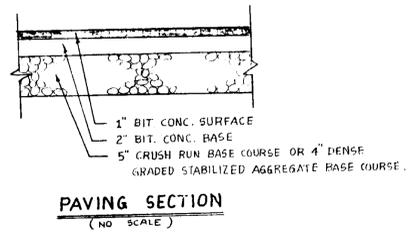
**TEMPORARY SEEDING NOTES**

**Seeding Preparation:** Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

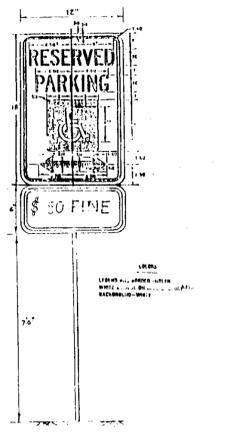
**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)

**Seeding:** For periods March 1 through April 30 and from August 15 through November 15, seed with 25 lbs. per acre of annual ryegrass (2.2 lbs./1000 sq. ft.) For the period May 1 through August 10, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible, in the spring or use sod.

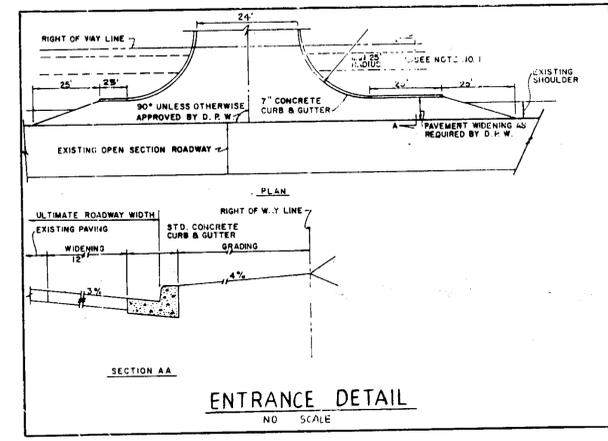
**Mulching:** Apply 14 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.



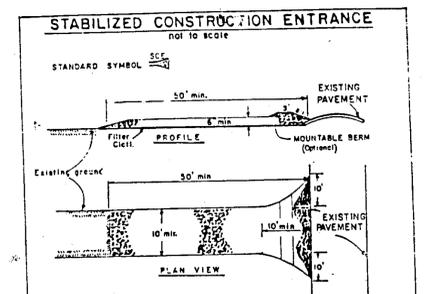
**STANDARD 7\"/>**



**HANDICAPPED PARKING SIGN DETAIL**  
NO SCALE



**ENTRANCE DETAIL**  
NO SCALE



**CONSTRUCTION SPECIFICATIONS**

1. Stone Size - Use #7 stone, or recycled or recycled concrete equivalent. Length & width required, but not less than 30 feet (except on a single incline face) where a 30 foot minimum length would apply.
2. Thickness - Not less than six (6) inches.
3. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
4. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single face incline face.
5. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with six (6) inch slope will be provided.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any material used to top dressing. All top dressing shall be cleaned, dropped, washed or treated onto public rights-of-way must be removed immediately.
7. Sealing - Seals shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area established with stone and which drains into approved sediment trapping device.
8. Periodic inspection and needed maintenance shall be provided after each rain.

**A. MATERIALS**

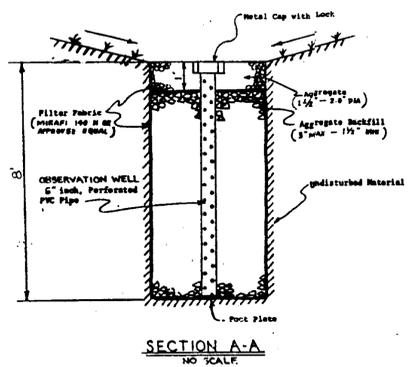
1. Aggregate - The aggregate material shall consist of a clean aggregate with a maximum diameter of 3\"/>

**B. CONSTRUCTION SPECIFICATIONS**

1. The infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the inspector.
2. Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the trench shall be reinforced where sheared and sealed by heavy equipment.
3. The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a six (6) inch minimum top overlap. Place the fabric roll over the trench and anchor it down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of two (2) feet over the downstream roll in order to provide a watertight fit.
4. The stone aggregate shall be placed in 12\"/>

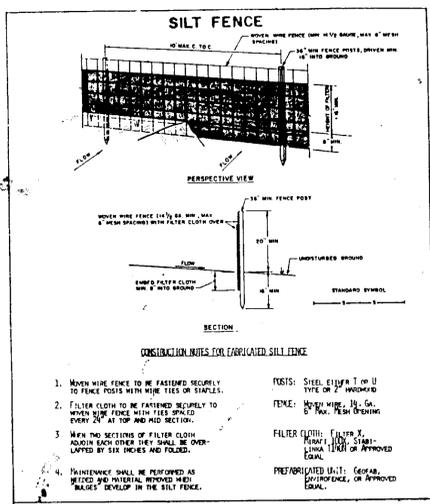
**C. MAINTENANCE**

1. The observation well shall be monitored periodically. For the first year after completion of construction, the well shall be monitored on a quarterly basis and thereafter on a semi-annual basis. It is recommended that a log book be maintained indicating the date at which the well is monitored, the rate at which the water level in the well is rising, and the depth of the water for each observation. Once the performance characteristics of the structure have been verified, the monitoring schedule can be reduced to an annual basis, unless the performance data indicate that a more frequent schedule is required.
2. Sediment build-up in the top foot of stone aggregate shall be monitored on the same schedule as the observation well. Sediment deposited shall not be allowed to build up to the point where it will reduce the rate of infiltration into the trench.



**SECTION A-A**  
NO SCALE

**NOTE:** A QUALIFIED ENGINEER MUST INSPECT THE BOTTOM OF THE TRENCH FOR SOIL TYPE PRIOR TO PLACEMENT OF CLOTH AND STONE.

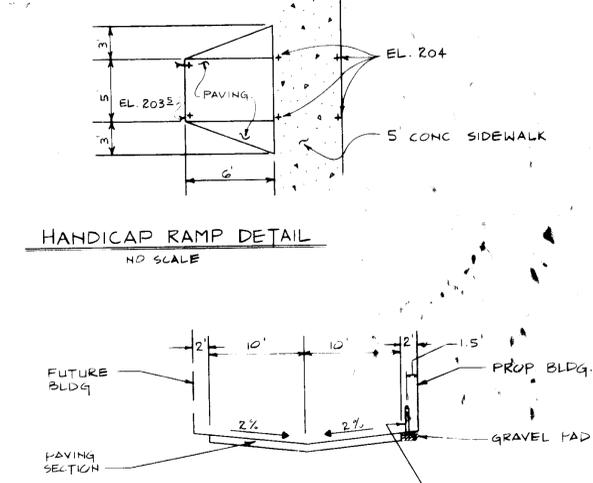


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

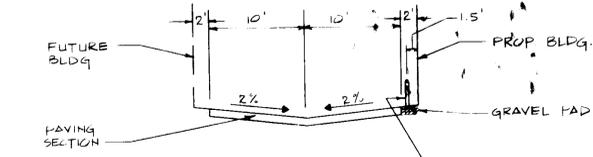
1. WHEN THE FENCE IS FASTENED SECURELY TO THE POSTS WITH THE TIES OF STAPLES.
2. FILTER CLOTHS WILL BE FASTENED SECURELY TO THE POSTS WITH THE TIES OF STAPLES.
3. WHEN NO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND TIED.
4. MAINTENANCE SHALL BE PROVIDED AS REQUIRED TO PREVENT SEDIMENT FROM BUILDING UP IN THE SILT FENCE.

**POSTS:** STEEL EIGHT (8) IN. DIA. OR EQUIV. GALVANNEAL STEEL.

**TIES:** GALVANNEAL STEEL, 1/4\"/>



**HANDICAP RAMP DETAIL**  
NO SCALE



**LOADING DOCK DRIVE DETAIL**  
NO SCALE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND NEEDS TECHNICAL REQUIREMENTS

*[Signature]* 7-24-87  
DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 7-24-87  
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SERVICE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 8-25-87  
DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 7-28-87  
DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* 8-22-87  
DATE

*[Signature]* 8-22-87  
DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 1/6/87  
DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*[Signature]* 12/15/86  
DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 12-4-86

| REVISIONS |      |      |    |             |
|-----------|------|------|----|-------------|
| DESIGNED  | DATE | DATE | BY | DESCRIPTION |
|           |      |      |    |             |
| DRAWN     |      |      |    |             |
| CHECKED   |      |      |    |             |
| APPROVED  |      |      |    |             |

**ENGINEERING TECHNOLOGIES ASSOCIATES, INC.**  
ENGINEERS, SURVEYORS, CONSTRUCTION MANAGERS.  
9051 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MD. 21043  
(301) 461-9920



OWNER/DEVELOPER  
SAM CHANDOK  
2153 DELAVER  
ANN ARBOR, MICHIGAN, 48103  
(313) 668-6882

SITE, GRADING AND SEDIMENT CONTROL PLAN

**P. ART WAREHOUSE**

PARCEL NO: 58 TAX MAP: 43 BLOCK: 4  
4<sup>TH</sup> ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN CONTRACT NO. SDP # 87-52 DATE: AUG 86 SHEET: 2 OF 2  
SDP-87-52